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10/678,800	10/03/2003	Todd P. Guay	oracle01.026	3882
7590 06/23/2009 Gordon E. Nelson			EXAMINER	
57 Central St. P.O. Box 782 Rowley, MA 01969			AHLUWALIA, NAVNEET K	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/678,800	GUAY ET AL.
Office Action Summary	Examiner	Art Unit
	NAVNEET K. AHLUWALIA	2166
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tinwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>27 №</u> This action is <b>FINAL</b> . 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under №	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4)	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and all all all all all all all all all al	cepted or b) objected to by the liderawing(s) be held in abeyance. See tion is required if the drawing(s) is objected.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal F 6) Other:	ate

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## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/27/2009 has been entered.

## Response to Arguments

- 2. Claims 1 8, 25 32 and 49 56 are pending in this Office Action. After a further search and a thorough examination of the present application, claims 1 8, 25 32 and 49 56 remain rejected.
- 3. Applicant's arguments filed with respect to claims 1 8, 25 32 and 49 56 have been fully considered but they are not persuasive.

Applicant argues that there is no teaching in the combination of Bakalash and Lore, specifically Lore as it does not disclose an aggregate entry that includes a field whose value is a representation of a set of individual members, the individual members being derived from values contained in entries belonging to the plurality of the entries, and the representation specifies the individuals members of the set.

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In response to Applicant's argument, the Examiner submits that Bakalash and Lore in combination and specifically Lore discloses an aggregate entry that includes a field whose value is a representation of a set of individual members, the individual members being derived from values contained in entries belonging to the plurality of the entries, and the representation specifies the individuals members of the set. This is disclosed in Lore in paragraphs 125 and 191. In paragraphs 125 discloses aggregated records, keys and the address files of the data stored or cached. Furthermore, paragraph 191 teaches in detail the function of the aggregated entry which includes a field that represents the individual members and these members are specified along with their addresses..

Hence, Applicant's arguments do not distinguish the claimed invention over the prior art of record. In light of the foregoing arguments, the 103 rejections are sustained.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1 – 8 and 25 – 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bakalash et al. ('Bakalash' herein after) (US 2002/0029207 A1) further in view of Lore et al. ('Lore' herein after) (US 2002/0099691 A1).

With respect to claim 1,

Bakalash discloses a method of aggregating a plurality of entries in a table in a database management system into an aggregated entry in the table or another table in the database management system, the method comprising the steps of: making the aggregated entry, the aggregated entry representing the plurality of entries and including a first field whose value is a metric value computed from a set of individual values of a field in the plurality of entries and a second field whose value is a representation of the individual values (paragraphs 25, 29, 55 – 57, 68 and 73 – 74, Bakalash).

Bakalash does not disclose the aggregated entry as argued by the applicant.

Lore, however teaches the aggregated entry as explained by applicant. This disclosure can be found in paragraphs 35 – 39 and 68 – 71.

It would have been obvious to one of ordinary skill in the art of data processing at the time of the present invention to combine the teachings of cited references because

both applications/inventions are directed towards the same field of study, namely aggregation of data. Furthermore, the aggregated entry type disclosed in Lore diminishes space/memory wasted in storing the full detail data of the pre-aggregated data (paragraphs 35 – 39, Lore).

7. Claims 2 - 8, 49 - 52 are rejected under the same rationale as claim 1 above.

With respect to claim 2,

Bakalash discloses the method set forth in claim 1 further comprising the step of: deleting the plurality of entries represented by the aggregated entry (paragraphs 216, 258, Bakalash).

With respect to claim 3,

Bakalash discloses the method set forth in claim 1 wherein: the second field's value has a size which varies with the number of the individual values (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 4,

Bakalash discloses the method set forth in claim 3 wherein: The second field's value is a character string wherein the character string comprising a sequence of for each individual member of the set and separator characters separating each sequences of characters (Figure 10A-B, Bakalash).

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With respect to claim 5,

Bakalash discloses the method set forth in claim 1 wherein: the second field's value has a size which is constant regardless of the number of the individual members in the set (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 6,

Bakalash discloses the method set forth in claim 5 wherein: the second field's value comprises a string of elements, the string of elements having an element corresponding to each potential value of the individual values that belong to the set, the presence of a particular individual value in the set being indicated by a first value of the corresponding element and the absence of the particular individual value being indicated by a second value of the corresponding element (paragraph 59 – 62, Bakalash).

With respect to claim 7,

Bakalash discloses the method set forth in claim 1 wherein: the individual values are time values (Figures 17A, 18A-B, Bakalash).

With respect to claim 8,

Bakalash discloses the method set forth in claim 1 wherein: the individual values are location values (paragraph 59 – 62 and Figures 17A, 18A-B, Bakalash).

With respect to claim 49,

Bakalash discloses the method of aggregating a plurality of entries set forth in claim 1 wherein: the entries belonging to the plurality indicate occurrences of an event in the database management system, the occurrences being recorded by a management service in the database management system (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 50,

Bakalash discloses the method of aggregating a plurality of entries set forth in claim 49 further comprising the step of: deleting the plurality of entries represented by the aggregated entry (paragraph 59 – 62 and Figures 17A, 18A-B, Bakalash).

With respect to claim 51,

Bakalash discloses the method of aggregating a plurality of entries set forth in claim 50 wherein: the individual values indicate times of occurrence of the event of interest (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 52,

Bakalash discloses the method of aggregating a plurality of entries set forth in claim 50 wherein: the individual values indicate places of occurrence of the event of interest (paragraph 59 – 62 and Figures 17A, 18A-B, Bakalash).

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With respect to claim 25,

Bakalash discloses a data storage device, characterized in that: the data storage device contains code which when executed by a processor performs aggregation of a plurality of entries in a table in a database management system into an aggregated entry in the table or another table in the database management system, the method comprising the steps of: making the aggregated entry, the aggregated entry representing the plurality of entries and including a first field whose value is a metric value computed from a set of individual values of a field in the plurality of entries and a second field whose value is a representation of the individual values (paragraphs 55 – 57 and 73 – 74, Bakalash).

Bakalash does not disclose the aggregated entry as argued by the applicant.

Lore, however teaches the aggregated entry as explained by applicant. This disclosure can be found in paragraphs 35 - 39 and 68 - 71.

It would have been obvious to one of ordinary skill in the art of data processing at the time of the present invention to combine the teachings of cited references because both applications/inventions are directed towards the same field of study, namely aggregation of data. Furthermore, the aggregated entry type disclosed in Lore diminishes space/memory wasted in storing the full detail data of the pre-aggregated data (paragraphs 35 – 39, Lore).

8. Claims 26 – 32 and 53 – 56 are rejected under the same rationale as claim 25 above.

With respect to claim 26,

Bakalash discloses the data storage device set forth in claim 25 further characterized in that: the method further comprises the step of deleting the plurality of entries represented by the aggregated entry (paragraphs 216, 258, Bakalash).

With respect to claim 27,

Bakalash discloses the data storage device set forth in claim 25 further characterized in that: the second field's value has a size which varies with the number of the individual values (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 28,

Bakalash discloses the data storage device set forth in claim 27 further characterized in that: The second field's value a character string wherein each member is represented by a sequence of characters and the sequences of characters are separated by a separator character (Figure 10A-B, Bakalash).

With respect to claim 29,

Bakalash discloses the data storage device set forth in claim 25 further characterized in that: the second field's value has a size which is constant regardless of

the number of individual values (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 30,

Bakalash discloses the data storage device set forth in claim 29 further characterized in that: the second field's value comprises a string of elements, there having an element corresponding to each potential value of the individual values that belong to the set, the presence of a particular member in the set being indicated by a first value of the corresponding element and the absence of the particular member being indicated by a second value of the corresponding element (paragraph 59 – 62, Bakalash).

With respect to claim 31,

Bakalash discloses the data storage device set forth in claim 25 further characterized in that: the individual values are time values (Figures 17A, 18A-B, Bakalash).

With respect to claim 32,

Bakalash discloses the data storage device set forth in claim 25 further characterized in that: the individual values are location values (paragraph 59 – 62 and Figures 17A, 18A-B, Bakalash).

With respect to claim 53,

Bakalash discloses the data storage device set forth in claim 25 wherein: the entries belonging to the plurality indicate occurrences of an event in the database management system, the occurrences being recorded by a management service in the database management system (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 54,

Bakalash discloses the data storage device set forth in claim 53 wherein the code further comprises: instructions for deleting the plurality of entries represented by the aggregated entry (paragraph 59 – 62 and Figures 17A, 18A-B, Bakalash).

With respect to claim 55,

Bakalash discloses the data storage device set forth in claim 54 wherein: the individual values indicate times of occurrence Of the event of interest (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 56,

Bakalash discloses the data storage device set forth in claim 54 wherein: the individual values indicate places of occurrence of the event of interest (paragraph 59 – 62 and Figures 17A, 18A-B, Bakalash).

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Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Navneet K. Ahluwalia whose telephone number is 571-

272-5636.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Alam T. Hosain can be reached on 571-272-3978. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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/Navneet K. Ahluwalia/

Examiner, Art Unit 2166

Dated: 06/19/2009

/Isaac M. Woo/

Primary Examiner, Art Unit 2166